WARD NO.09

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12) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT VIRUPAKSHAPURA AND SURROUNDING AREA IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 03

(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT VIRUPAKSHAPURA AND SURROUNDING AREA IN WARD NO. 09 VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, Roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	VIRUPAKSHAPURA LAYOUT								
	2nd cross (upto jeeva nadi villas)	Cum	2	339.90	0.60	0.40	163.15		
	3rd cross	Cum	2	213.29	0.60	0.40	102.38		
	4th cross	Cum	2	234.30	0.60	0.40	112.46		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Cum	2	287.90	0.60	0.40	138.19		
	2nd main 6th cross road	Cum	2	127.60	0.60	0.40	61.25		
	2nd main 7'A cross road	Cum	2	119.60	0.70	0.40	66.98		
	2nd main 11 cross road	Cum	2	150.30	0.80	0.40	96.19		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**740.60**	**166.42**	**123251.18**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	Drain Slab								
	VIRUPAKSHAPURA LAYOUT								
	2nd cross (upto jeeva nadi villas)	Sqm	2	339.90	1.80		1223.64		
	3rd cross	Sqm	2	213.29	1.80		767.84		
	4th cross	Sqm	2	234.30	1.80		843.48		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Sqm	2	287.90	1.80		1036.44		
	2nd main 6th cross road	Sqm	2	127.60	1.80		459.36		
	2nd main 7'A cross road	Sqm	2	119.60	1.80		430.56		
	2nd main 11 cross road	Sqm	2	150.30	1.80		541.08		
	Sub Total						**5302.40**		
	Consider 5% Qnty for Removing						**265.12**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**265.12**	**65.72**	**17423.70**

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3	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain Slab								
	VIRUPAKSHAPURA LAYOUT								
	2nd cross (upto jeeva nadi villas)	Sqm	2	339.90	1.80		1223.64		
	3rd cross	Sqm	2	213.29	1.80		767.84		
	4th cross	Sqm	2	234.30	1.80		843.48		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Sqm	2	287.90	1.80		1036.44		
	2nd main 6th cross road	Cum	2	127.60	1.80		459.36		
	2nd main 7'A cross road	Sqm	2	119.60	1.80		430.56		
	2nd main 11 cross road	Sqm	2	150.30	1.80		541.08		
	Sub Total						**5302.40**		
	Consider 5% Qnty for Refixing						**265.12**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**265.12**	**825.74**	**218920.35**
4	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Cum	2	4.95	0.70	0.23	1.59		
	4th cross	Cum	1	5.28	0.70	0.23	0.85		
		Cum	1	5.17	0.56	0.23	0.67		
	SIR M.V LAYOUT								
	2nd main 6th cross road	Cum	2	5.28	0.60	0.23	1.46		
	2nd main 7'A cross road	Cum	2	4.95	0.70	0.23	1.59		
			1	5.17	0.60	0.23	0.71		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**6.87**	**86.92**	**597.53**
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+ I.No.4	Cum					747.48		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48.00						

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	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						747.48	122.96	91909.86
6	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Cum	2	4.95	0.70	0.23	1.59		
	4th cross	Cum	1	5.28	0.70	0.23	0.85		
		Cum	1	5.17	0.56	0.23	0.67		
	SIR M.V LAYOUT								
	2nd main 6th cross road	Cum	2	5.28	0.60	0.23	1.46		
	2nd main 7'A cross road	Cum	2	4.95	0.70	0.23	1.59		
			1	5.17	0.60	0.23	0.71		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						6.87	1768.08	12154.69
7	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Sqm	2	4.95	0.70		6.93		
	4th cross	Sqm	1	5.28	0.70		3.70		
		Sqm	1	5.17	0.56		2.90		
	SIR M.V LAYOUT								
	2nd main 6th cross road	Cum	2	5.28	0.60		6.34		
	2nd main 7'A cross road	Cum	2	4.95	0.70		6.93		
			1	5.17	0.60		3.10		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						29.89	13.78	411.87
8	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502. (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					29.89		
	Basic rate							26.00	

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	Area weightage 6%							1.56	
	Total						29.89	27.56	823.75
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Cum	2	4.95	0.70	0.05	0.35		
	4th cross	Cum	1	5.28	0.70	0.05	0.18		
		Cum	1	5.17	0.56	0.05	0.14		
	SIR M.V LAYOUT								
	2nd main 6th cross road	Cum	2	5.28	0.60	0.05	0.32		
	2nd main 7'A cross road	Cum	2	4.95	0.70	0.05	0.35		
			1	5.17	0.60	0.05	0.16		
	Sub Total						**1.49**		
	Consider 5% qty for Profile correction and Dipression filling						**0.07**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**1.57**	**7120.02**	**11172.61**
10	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Sqm	1	213.95	4.40		941.38		
	2nd cross (upto jeeva nadi villas)	Sqm	1	339.90	5.10		1733.49		
	3rd cross	Sqm	1	213.40	4.80		1024.32		
	4th cross	Sqm	1	234.30	4.90		1148.07		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Sqm	1	287.90	5.10		1468.29		
	2nd main 6th cross road	Sqm	1	127.60	5.00		638.00		
	2nd main 7'A cross road	Sqm	1	119.60	4.80		574.08		
	2nd main 11 cross road	Sqm	1	150.30	5.00		751.50		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**8279.13**	**3.18**	**26327.63**
11	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road surface								
	VIRUPAKSHAPURA LAYOUT								

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	1st cross (pole factory road)	Sqm	1	213.95	4.40		941.38		
	2nd cross (upto jeeva nadi villas)	Sqm	1	339.90	5.10		1733.49		
	3rd cross	Sqm	1	213.40	4.80		1024.32		
	4th cross	Sqm	1	234.30	4.90		1148.07		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Sqm	1	287.90	5.10		1468.29		
	2nd main 6th cross road	Sqm	1	127.60	5.00		638.00		
	2nd main 7A cross road	Sqm	1	119.60	4.80		574.08		
	2nd main 11 cross road	Sqm	1	150.30	5.00		751.50		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**8279.13**	**12.72**	**105310.53**
12	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Cum	1	213.95	4.40	0.04	37.66		
	2nd cross (upto jeeva nadi villas)	Cum	1	339.90	5.10	0.04	69.34		
	3rd cross	Cum	1	213.40	4.80	0.04	40.97		
	4th cross	Cum	1	234.30	4.90	0.04	45.92		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Cum	1	287.90	5.10	0.04	58.73		
	2nd main 6th cross road	Cum	1	127.60	5.00	0.04	25.52		
	2nd main 7A cross road	Cum	1	119.60	4.80	0.04	22.96		
	2nd main 11 cross road	Cum	1	150.30	5.00	0.04	30.06		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Cum	1	213.95	4.40	0.04	3.77		
	2nd cross (upto jeeva nadi villas)	Cum	1	339.90	5.10	0.04	6.93		
	3rd cross	Cum	1	213.40	4.80	0.04	4.10		
	4th cross	Cum	1	234.30	4.90	0.04	4.59		
	Sri ram shrayas appartment, Telecom	Cum	1	208.50	8.35	0.04	6.96		
		Cum	1	45.10	6.00	0.04	1.08		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Cum	1	287.90	5.10	0.04	5.87		
	2nd main 6th cross road	Cum	1	127.60	5.00	0.04	2.55		

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	2nd main 7'A cross road	Cum	1	119.60	4.80	0.04	2.30		
	2nd main 11 cross road	Cum	1	150.30	5.00	0.04	3.01		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**372.33**	**8118.54**	**3022759.92**
13	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	372.33	117.00	**3484.99**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**3484.99**	**28.62**	**99740.42**
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185-I.No.24.15)								
	VIRUPAKSHAPURA LAYOUT								
	1st cross (pole factory road)	Sqm	2	213.95	0.10		42.79		
	2nd cross (upto jeeva nadi villas)	Sqm	2	339.90	0.10		67.98		
	3rd cross	Sqm	2	213.40	0.10		42.68		
	4th cross	Sqm	2	234.30	0.10		46.86		
	SIR M.V LAYOUT								
	2nd main 3rd cross road	Sqm	2	287.90	0.10		57.58		
	2nd main 6th cross road	Sqm	2	127.60	0.10		25.52		
	2nd main 7'A cross road	Sqm	2	119.60	0.10		23.92		
	2nd main 11 cross road	Sqm	2	150.30	0.10		30.06		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**337.39**	**542.72**	**183108.30**
								Sub Total	**3913912.37**
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)								80000
								Miscellenious and rounding	6088
								TOTAL AMOUNT	**4000000**
								RUPEES FORTY LAKHS ONLY	

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29/01/18

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Vidyaranyapura Division
Yelahanka Zone, B.B.M.P.
Bangalore-560092

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13) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT THINDLU AND SURROUNDING AREA IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 03

(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT THINDLU AND SURROUNDING AREA IN WARD NO. 09 VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, Roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	BASAVA SAMITHI LAYOUT								
	6th cross	Cum	2	90.75	0.80	0.40	58.08		
	3'B cross	Cum	2	180.90	0.70	0.40	101.30		
	3'C cross	Cum	2	183.40	0.70	0.40	102.70		
	3'D cross	Cum	2	105.30	0.70	0.40	58.97		
	3rd cross (shiva temple road)	Cum	2	161.10	0.60	0.40	77.33		
	3'A cross	Cum	2	106.50	0.80	0.40	68.16		
	VMS garden 1st cross ('T' cross road)	Cum	2	119.50	0.70	0.40	66.92		
	T' shape road	Cum	2	55.60	0.70	0.40	31.14		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Cum	2	156.40	0.80	0.40	100.10		
	BK LAYOUT								
	2nd cross	Cum	2	120.10	0.70	0.40	67.26		
	1st main road	Cum	2	235.50	0.70	0.40	131.88		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**863.83**	**166.42**	**143758.92**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	0.80		72.60		
	3'D cross	Sqm	1	105.30	0.70		73.71		
	3rd cross (shiva temple road)	Sqm	2	161.10	0.60		193.32		
	VMS garden 1st cross ('T' cross road)	Sqm	2	119.50	0.70		167.30		
	T' shape road	Sqm	2	55.60	0.70		77.84		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	2	156.40	0.80		250.24		
	BK LAYOUT								

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	2nd cross	Sqm	2	120.10	0.70		168.14		
	1st main road	Sqm	2	235.50	0.70		329.70		
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	1.80		163.35		
	3'D cross	Sqm	1	105.30	1.80		189.54		
	3'B cross	Sqm	2	180.90	1.80		651.24		
	3'C cross	Sqm	2	183.40	1.80		660.24		
	3'A cross	Cum	2	106.50	1.80		383.40		
	Sub Total						**3380.62**		
	Consider 5% Qnty for Removing						**169.03**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**169.03**	**65.72**	**11108.72**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	0.80		72.60		
	3'D cross	Sqm	1	105.30	0.70		73.71		
	3rd cross (shiva temple road)	Sqm	2	161.10	0.60		193.32		
	VMS garden 1st cross ('T' cross road)	Sqm	2	119.50	0.70		167.30		
	T' shape road	Sqm	2	55.60	0.70		77.84		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	2	156.40	0.80		250.24		
	BK LAYOUT								
	2nd cross	Sqm	2	120.10	0.70		168.14		
	1st main road	Sqm	2	235.50	0.70		329.70		
	Sub Total						**1332.85**		
	Consider 30% Qnty for Removing & Refixing						**399.86**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**399.86**	**80.56**	**32212.32**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Closed Drain								
	Drain slab								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	0.80		72.60		
	3'D cross	Sqm	1	105.30	0.70		73.71		

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	3rd cross (shiva temple road)	Sqm	2	161.10	0.60		193.32		
	VMS garden 1st cross ('T' cross road)	Sqm	2	119.50	0.70		167.30		
	T' shape road	Sqm	2	55.60	0.70		77.84		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	2	154.60	0.80		247.36		
	BK LAYOUT								
	2nd cross	Sqm	2	120.10	0.70		168.14		
	1st main road	Sqm	2	235.50	0.70		329.70		
	Sub Total						**1329.97**		
	Consider 5% Qnty for Refixing						**66.50**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**66.50**	**665.68**	**44266.72**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	1.80		163.35		
	3'D cross	Sqm	1	105.30	1.80		189.54		
	3'B cross	Sqm	2	180.90	1.80		651.24		
	3'C cross	Sqm	2	183.40	1.80		660.24		
	3'A cross	Cum	2	106.50	1.80		383.40		
	Sub Total						**2047.77**		
	Consider 5% Qnty for Refixing						**102.39**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**102.39**	**825.74**	**84546.28**
6	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	BASAVA SAMITHI LAYOUT								
	6th cross	Cum	1	55.00	0.90	0.23	11.39		
		Cum	2	5.28	0.80	0.23	1.94		
	3'D cross	Cum	2	5.28	0.80	0.23	1.94		
		Cum	2	5.28	0.50	0.23	1.21		
	3'A cross							82.00	
	Basic rate							4.92	
	Area weightage 6%						**16.49**	**86.92**	**1432.92**
	Total								
7	**Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)**								

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	Considered same Qty vide I.No.1+I.No.6	Cum					880.32		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00					116.00	
	Basic rate							6.96	
	Area weightage 6%						**880.32**	**122.96**	**108243.84**
	Total								
8	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	BASAVA SAMITHI LAYOUT								
	6th cross	Cum	1	55.00	0.90	0.23	11.39		
		Cum	2	5.28	0.80	0.23	1.94		
	3'D cross	Cum	2	5.28	0.80	0.23	1.94		
	3'A cross	Cum	2	5.28	0.50	0.23	1.21		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**16.49**	**1768.08**	**29147.65**
9	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.147, I.No.19.56)								
	BASAVA SAMITHI LAYOUT								
	3'B cross	Sqm	1	180.90	5.20		940.68		
	3'C cross	Sqm	1	183.40	5.20		953.68		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	1	154.60	5.40		834.84		
	BK LAYOUT								
	2nd cross	Sqm	1	120.10	5.30		636.53		
	Basic rate							29.00	
	Area weightage 6%							1.74	
	Total						**3365.73**	**30.74**	**103462.54**
10	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								

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Road cutting portions									
BASAVA SAMITHI LAYOUT									
6th cross	Sqm	1	55.00	0.90		49.50			
	Sqm	2	5.28	0.80		8.45			
3'B cross	Sqm	1	180.90	5.20		940.68			
3'C cross	Sqm	1	183.40	5.20		953.68			
3'D cross	Sqm	2	5.28	0.80		8.45			
3'A cross	Sqm	2	5.28	0.50		5.28			
THINDLU GKVK									
Ashwath katte road, Samudhaya bhavan road	Sqm	1	154.60	5.40		834.84			
BK LAYOUT									
2nd cross	Sqm	1	120.10	5.30		636.53			
Basic rate							13.00		
Area weightage 6%							0.78		
Total						**3437.41**	**13.78**	**47367.45**	
11	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502. (P.No.161, I.No.21.6)								
Considered same Above Qty	Sqm					3437.41			
Basic rate							26.00		
Area weightage 6%							1.56		
Total						**3437.41**	**27.56**	**94734.91**	
12	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
Road cutting portions									
BASAVA SAMITHI LAYOUT									
6th cross	Cum	1	55.00	0.90	0.05	2.48			
	Cum	2	5.28	0.80	0.05	0.42			
3'B cross	Sqm	1	180.90	5.20	0.05	47.03			
3'C cross	Sqm	1	183.40	5.20	0.05	47.68			
3'D cross	Cum	2	5.28	0.80	0.05	0.42			
3'A cross	Cum	2	5.28	0.50	0.05	0.26			
THINDLU GKVK									
Ashwath katte road, Samudhaya bhavan road	Cum	1	154.60	5.40	0.05	41.74			
BK LAYOUT									
2nd cross	Cum	1	120.10	5.30	0.05	31.83			
Sub Total						**171.87**			
Consider 5% qty for Profile correction and Dipression filling						**8.59**			

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	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**180.46**	**7120.02**	**1284905.97**
13	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	5.00		453.75		
	3'B cross	Sqm	1	180.90	5.20		940.68		
	3'C cross	Sqm	1	183.40	5.20		953.68		
	3'D cross	Sqm	1	105.30	4.80		505.44		
	3rd cross (shiva temple road)	Sqm	1	161.10	4.40		708.84		
	3'A cross	Sqm	1	106.50	5.50		585.75		
	UAS appartment main road, including all cross roads	Sqm	1	201.50	5.20		1047.80		
	1st cross (from dead end)	Sqm	1	44.00	4.50		198.00		
	2nd cross	Sqm	1	33.00	4.50		148.50		
	3rd cross	Sqm	1	34.10	4.30		146.63		
	4th cross	Sqm	1	33.22	4.50		149.49		
	5th cross	Sqm	1	34.65	4.60		159.39		
	6th cross	Sqm	1	31.90	4.80		153.12		
	VMS garden 1st cross ('T' cross road)	Sqm	1	119.50	3.40		406.30		
	T' shape road	Sqm	1	55.60	4.80		266.88		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	1	154.60	5.40		834.84		
	BK LAYOUT								
	2nd cross	Sqm	1	120.10	5.30		636.53		
	1st main road	Sqm	1	235.50	5.40		1271.70		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**9567.32**	**3.18**	**30424.08**
14	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road surface								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	1	90.75	5.00		453.75		
	3'B cross	Sqm	1	180.90	5.20		940.68		
	3'C cross	Sqm	1	183.40	5.20		953.68		
	3'D cross	Sqm	1	105.30	4.80		505.44		
	3rd cross (shiva temple road)	Sqm	1	161.10	4.40		708.84		
	3'A cross	Sqm	1	106.50	5.50		585.75		

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	UAS appartment main road, including all cross roads	Sqm	1	201.50	5.20		1047.80		
	1st cross (from dead end)	Sqm	1	44.00	4.50		198.00		
	2nd cross	Sqm	1	33.00	4.50		148.50		
	3rd cross	Sqm	1	34.10	4.30		146.63		
	4th cross	Sqm	1	33.22	4.50		149.49		
	5th cross	Sqm	1	34.65	4.60		159.39		
	6th cross	Sqm	1	31.90	4.80		153.12		
	VMS garden 1st cross ('T' cross road)	Sqm	1	119.50	3.40		406.30		
	T' shape road	Sqm	1	55.60	4.80		266.88		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Sqm	1	154.60	5.40		834.84		
	BK LAYOUT								
	2nd cross	Sqm	1	120.10	5.30		636.53		
	1st main road	Sqm	1	235.50	5.40		1271.70		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**9567.32**	**12.72**	**121696.31**
15	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	BASAVA SAMITHI LAYOUT								
	6th cross	Cum	1	90.75	5.00	0.04	18.15		
	3'B cross	Cum	1	180.90	5.20	0.04	37.63		
	3'C cross	Cum	1	183.40	5.20	0.04	38.15		
	3'D cross	Cum	1	105.30	4.80	0.04	20.22		
	3rd cross (shiva temple road)	Cum	1	161.10	4.40	0.04	28.35		
	3'A cross	Cum	1	106.50	5.50	0.04	23.43		
	UAS appartment main road, including all cross roads	Cum	1	201.50	5.20	0.04	41.91		
	1st cross (from dead end)	Cum	1	44.00	4.50	0.04	7.92		
	2nd cross	Cum	1	33.00	4.50	0.04	5.94		
	3rd cross	Cum	1	34.10	4.30	0.04	5.87		
	4th cross	Cum	1	33.22	4.50	0.04	5.98		
	5th cross	Cum	1	34.65	4.60	0.04	6.38		
	6th cross	Cum	1	31.90	4.80	0.04	6.12		
	VMS garden 1st cross ('T' cross road)	Cum	1	119.50	3.40	0.04	16.25		
	T' shape road	Cum	1	55.60	4.80	0.04	10.68		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Cum	1	154.60	5.40	0.04	33.39		

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	BK LAYOUT								
	2nd cross	Cum	1	120.10	5.30	0.04	25.46		
	1st main road	Cum	1	235.50	5.40	0.04	50.87		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	BASAVA SAMITHI LAYOUT								
	6th cross	Cum	1	90.75	5.00	0.04	1.82		
	3'B cross	Cum	1	180.90	5.20	0.04	3.76		
	3'C cross	Cum	1	183.40	5.20	0.04	3.81		
	3'D cross	Cum	1	105.30	4.80	0.04	2.02		
	3rd cross (shiva temple road)	Cum	1	161.10	4.40	0.04	2.84		
	3'A cross	Cum	1	106.50	5.50	0.04	2.34		
	UAS appartment main road, including all cross roads	Cum	1	201.50	5.20	0.04	4.19		
	1st cross (from dead end)	Cum	1	44.00	4.50	0.04	0.79		
	2nd cross	Cum	1	33.00	4.50	0.04	0.59		
	3rd cross	Cum	1	34.10	4.30	0.04	0.59		
	4th cross	Cum	1	33.22	4.50	0.04	0.60		
	5th cross	Cum	1	34.65	4.60	0.04	0.64		
	6th cross	Cum	1	31.90	4.80	0.04	0.61		
	VMS garden 1st cross ('T' cross road)	Cum	1	119.50	3.40	0.04	1.63		
	T' shape road	Cum	1	55.60	4.80	0.04	1.07		
	THINDLU GKVK								
	Ashwath katte road, Samudhaya bhavan road	Cum	1	154.60	5.40	0.04	3.34		
	BK LAYOUT								
	2nd cross	Cum	1	120.10	5.30	0.04	2.55		
	1st main road	Cum	1	235.50	5.40	0.04	5.09		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**420.96**	**8118.54**	**3417597.48**
16	Providing Plastic to Bituminous concrete @ 8%								
	BASAVA SAMITHI LAYOUT								
	8% OF BC	Kg		0.08	420.96	117.00	**3940.21**	27.00	
	Basic rate							1.62	
	Area weightage 6%						**3940.21**	**28.62**	**112768.67**
	Total								
17	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	BASAVA SAMITHI LAYOUT								
	6th cross	Sqm	2	90.75	0.10		18.15		
	3'B cross	Sqm	2	180.90	0.10		36.18		

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3'C cross	Sqm	2	183.40	0.10		36.68		
3'D cross	Sqm	2	105.30	0.10		21.06		
3rd cross (shiva temple road)	Sqm	2	161.10	0.10		32.22		
3'A cross	Sqm	2	106.50	0.10		21.30		
UAS appartment main road, including all cross roads	Sqm	2	201.50	0.10		40.30		
1st cross (from dead end)	Sqm	2	44.00	0.10		8.80		
2nd cross	Sqm	2	33.00	0.10		6.60		
3rd cross	Sqm	2	34.10	0.10		6.82		
4th cross	Sqm	2	33.22	0.10		6.64		
5th cross	Sqm	2	34.65	0.10		6.93		
6th cross	Sqm	2	31.90	0.10		6.38		
VMS garden 1st cross ('T' cross road)	Sqm	2	119.50	0.10		23.90		
T' shape road	Sqm	2	55.60	0.10		11.12		
THINDLU GKVK								
Ashwath katte road, Samudhaya bhavan road	Sqm	2	154.60	0.10		30.92		
BK LAYOUT	Sqm							
2nd cross	Sqm	2	120.10	0.10		24.02		
1st main road	Sqm	2	235.50	0.10		47.10		
Basic rate							512.00	
Area weightage 6%							30.72	
Total						385.12	542.72	209014.50
							Sub Total	5876689.28
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)							120000
							Miscellenious and rounding	3311
							TOTAL AMOUNT	6000000
							RUPEES SIXTY LAKHS ONLY	

Technical Sanction
Accepted for Rs 60.00 lakhs only
Rs 3158
45
29/01/18

TA

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore-560092

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14) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT CANARA BANK LAYOUT AND SURROUNDING AREAS IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION

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BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 03

(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND WARD NO 09)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT CANARA BANK LAYOUT AND SURROUNDING AREAS IN WARD NO. 09 VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	2	275.80	0.70	0.40	154.45		
	12th main road (KS nursing road to Furtuna appartment)	Cum	2	150.90	0.70	0.40	84.50		
	6th main road	Cum	2	131.40	0.70	0.40	73.58		
	7'A cross	Cum	2	48.90	0.60	0.40	23.47		
	8th cross	Cum	2	88.50	0.60	0.40	42.48		
	9th main road (shivram rao road)	Cum	2	134	0.60	0.40	64.42		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**442.90**	**166.42**	**73708.08**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	Drain slab								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	2	275.80	1.80		992.88		
	12th main road (KS nursing road to Furtuna appartment)	Sqm	2	150.90	1.80		543.24		
	6th main road	Sqm	2	131.40	1.80		473.04		
	7'A cross	Sqm	2	48.90	1.80		176.04		
	8th cross	Sqm	2	88.50	1.80		318.60		
	9th main road (shivram rao road)	Cum	2	134	1.80		483.12		
	Sub Total						**2986.92**		
	Consider 5% Qnty for Refixing						**149.35**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**149.35**	**65.72**	**9815.02**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	CANARA BANK LAYOUT								

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	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	2	275.80	1.80		992.88		
	12th main road (KS nursing road to Furtuna appartment)	Sqm	2	150.90	1.80		543.24		
	6th main road	Sqm	2	131.40	1.80		473.04		
	7'A cross	Sqm	2	48.90	1.80		176.04		
	8th cross	Sqm	2	88.50	1.80		318.60		
	9th main road (shivram rao road)	Cum	2	134	1.80		483.12		
	Sub Total						**2986.92**		
	Consider 5% Qnty for Refixing						**149.35**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**149.35**	**825.74**	**123320.97**
4	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	1	5.06	0.70	0.23	0.81		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**0.81**	**86.92**	**70.81**
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty videI.No.1+I.No.4	Cum					443.72		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.50 Tonne/Km.) For 15 Kms = (2.00 x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00					116.00	
	Basic rate							6.96	
	Area weightage 6%						**443.72**	**122.96**	**54559.65**
	Total								
6	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	CANARA BANK LAYOUT								

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	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	1	5.06	0.70	0.23	0.81		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**0.81**	**1768.08**	**1440.38**
7	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	1	5.06	0.70		3.54		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**3.54**	**13.78**	**48.81**
8	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502. (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					3.54		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						**3.54**	**27.56**	**97.62**
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	1	5.06	0.70	0.05	0.18		
	Sub Total						**0.18**		
	Consider 5% qty for Profile correction and Dipression filling						**0.01**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**0.19**	**7120.02**	**1324.00**
10	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	1	275.80	4.75		1310.05		

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	12th main road (KS nursing road to Furtuna appartment)	Sqm	1	150.90	5.00		754.50		
	6th main road	Sqm	1	131.40	5.40		709.56		
	7'A cross	Sqm	1	48.90	4.80		234.72		
	8th cross	Sqm	1	88.50	4.90		433.65		
	9th main road (shivram rao road)	Sqm	1	134.20	5.30		711.26		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**4153.74**	**3.18**	**13208.89**
11	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road surface								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	1	275.80	4.75		1310.05		
	12th main road (KS nursing road to Furtuna appartment)	Sqm	1	150.90	5.00		754.50		
	6th main road	Sqm	1	131.40	5.40		709.56		
	7'A cross	Sqm	1	48.90	4.80		234.72		
	8th cross	Sqm	1	88.50	4.90		433.65		
	9th main road (shivram rao road)	Sqm	1	134.20	5.30		711.26		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**4153.74**	**12.72**	**52835.57**
12	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	1	275.80	4.75	0.04	52.40		
	12th main road (KS nursing road to Furtuna appartment)	Cum	1	150.90	5.00	0.04	30.18		
	6th main road	Cum	1	131.40	5.40	0.04	28.38		
	7'A cross	Cum	1	48.90	4.80	0.04	9.39		
	8th cross	Cum	1	88.50	4.90	0.04	17.35		
	9th main road (shivram rao road)	Cum	1	134.20	5.30	0.04	28.45		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Cum	1	275.80	4.75	0.04	5.24		

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	12th main road (KS nursing road to Furtuna appartment)	Cum	1	150.90	5.00	0.04	3.02		
	6th main road	Cum	1	131.40	5.40	0.04	2.84		
	7'A cross	Cum	1	48.90	4.80	0.04	0.94		
	8th cross	Cum	1	88.50	4.90	0.04	1.73		
	9th main road (shivram rao road)	Cum	1	134.20	5.30	0.04	2.85		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						182.76	8118.54	1483781.39
13	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	182.76	117.00	1710.68		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						1710.68	28.62	48959.56
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	CANARA BANK LAYOUT								
	11'A main road (AN murthi rao road to junjevana appartment road)	Sqm	2	275.80	0.10		55.16		
	12th main road (KS nursing road to Furtuna appartment)	Sqm	2	150.90	0.10		30.18		
	6th main road	Sqm	2	131.40	0.10		26.28		
	7'A cross	Sqm	2	48.90	0.10		9.78		
	8th cross	Sqm	2	88.50	0.10		17.70		
	9th main road (shivram rao road)	Sqm	2	134.20	0.10		26.84		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						165.94	542.72	90058.96
								Sub Total	1953230
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)								40000
								Miscellenious and rounding	6770
								TOTAL AMOUNT	2000000
								RUPEES TWENTY LAKHS ONLY	

Technical Section
RS 20 lakhs only
P3158
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29/01/18
SE (WN)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Byatarayanapura Division
Yalahanka Zone, B.B.M.P.
Bangalore-560092

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